

What is claimed is:

1. A method of abrading a surface of a workpiece comprising:
providing a structured abrasive article comprising a backing having opposed major
5 surfaces and an abrasive layer comprising a plurality of precisely shaped abrasive
composites bonded to one of the major surfaces, wherein the abrasive composites
comprise abrasive grains dispersed in a polymeric binder;
contacting the abrasive layer with the surface of the workpiece;
contacting a liquid comprising water and at least one of a sulfonate or sulfate
10 anionic surfactant with at least one of the workpiece or the abrasive article; and
moving at least one of the abrasive layer and the surface of the workpiece relative
to the other to abrade at least a portion of the surface of the workpiece.
2. A method according to claim 1, wherein the at least one of a sulfonate or sulfate
15 anionic surfactant is selected from the group consisting of dialkyl sulfosuccinates,
alkylbenzenesulfonates, alkanesulfonates, alkyl polyether sulfates, alkyl aryl polyether
sulfonates, alkyl aryl ether sulfates, alkyl sulfates, and combinations thereof.
3. A method according to claim 1, wherein the at least one of a sulfonate or sulfate
20 anionic surfactant is selected from the group consisting of dodecylbenzenesulfonate, octyl
sulfate, dodecyl sulfate, 1,4-bis(2-ethylhexyl) sulfosuccinate, and combinations thereof.
4. A method according to claim 1, wherein the liquid comprises at least one of a
25 sulfonate or sulfate anionic surfactant in an amount of from at least 0.25 percent up to and
including 5 percent by weight, based on the total weight of the composition.
5. A method according to claim 1, wherein the liquid comprises at least one of a
sulfonate or sulfate anionic surfactant in an amount of from at least 0.5 percent up to and
including 3 percent by weight, based on the total weight of the composition.

30

6. A method according to claim 5, wherein the at least one of a sulfonate or sulfate anionic surfactant is selected from the group consisting of dodecylbenzenesulfonate, octyl sulfate, dodecyl sulfate, 1,4-bis(2-ethylhexyl) sulfosuccinate, and combinations thereof.
- 5 7. A method according to claim 1, wherein the liquid consists essentially of water and at least one of a sulfonate or sulfate anionic surfactant.
8. A method according to claim 1, wherein the liquid further comprises organic solvent.
- 10 9. A method according to claim 1, wherein the liquid further comprises at least one of a thickener, filler, colorant, or grinding aid.
10. A method according to claim 1, wherein the liquid is directly applied to the workpiece.
- 15 11. A method according to claim 10, wherein the liquid contacts the workpiece prior to contacting the abrasive layer with the surface of the workpiece.
- 20 12. A method according to claim 1, wherein the liquid is directly applied to the abrasive layer.
13. A method according to claim 12, wherein the liquid contacts the abrasive layer prior to contacting the abrasive layer with the surface of the workpiece.
- 25 14. A method according to claim 12, wherein the liquid contacts at least one of the abrasive layer and the workpiece after contacting the abrasive layer and the workpiece.
15. A method according to claim 1, wherein the liquid is discontinuously applied to at least one of the abrasive layer or the workpiece.
- 30

16. A method according to claim 1, wherein the workpiece comprises glass, metal, paint, a polymeric clearcoat, polycrystalline silicon, or a combination thereof.
- 5 17. A method according to claim 1, wherein the workpiece comprises at least one of a motor vehicle clearcoat or a marine gel coat.
18. A method according to claim 1, wherein the abrasive layer is discontinuous.
- 10 19. A method according to claim 1, wherein the structured abrasive article comprises a disc.
20. A method according to claim 18, wherein the disc has perforations therein.
- 15 21. A method according to claim 1, wherein the abrasive grains have an average particle size in a range of from at least 5 micrometers up to and including 35 micrometers.